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(19) (CA) **APPLICATION FOR CANADIAN PATENT** (12)

(54) Bathing Composition

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ABSTRACT OF THE DISCLOSURE

A bathing composition comprising (1) oily component, (2) nonionic surfactant, and (3) cationic polymer is disclosed. The bathing composition of the present invention makes it possible to render the skin moist after bathing, imparts a smooth feel to the skin during and after bathing, and provide a sustained moistening effect after bathing.

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BATHING COMPOSITION

FIELD OF THE INVENTION

This invention relates to a bathing composition. More particularly, it relates to a bathing composition which renders the skin moist after bathing, imparts a smooth feel to the skin during and after bathing, and provides a sustained high moistening effect after bathing.

BACKGROUND OF THE INVENTION

Bathing, which has various effects, for example, making our bodies clean, warming not only the limbs but also the whole body to the bones, and physically and mentally relaxing us, is essential to our daily lives.

On the other hand, it is frequently observed that bathing removes oily components from one's skin and thus impart a dryness to the skin after bathing, particularly in winter. In order to suppress the dryness, therefore, it has been attempted to apply, for example, a lotion or a cream to the skin after bathing. However the application of a lotion or a cream requires some time and care in the application. Further, it is difficult for, in particular, aged people to apply these cosmetics over the whole body.

In order to overcome these problems, there have been developed bathing compositions containing oily component(s) and humectant(s). The use of such bathing compositions enables us

to care for the skin over the whole body during bathing and thus makes it unnecessary to apply a lotion or a cream after bathing.

Oily components such as oils are effective in suppressing the dryness of the skin after bathing. An example of bathing compositions containing oily components is a so-called oil-bath, wherein oily components float on the bath water. When the employed bathing composition contains a sufficient amount of oily components for suppressing the dryness of the skin, however, these oily components adhere to the skin and impart a sticky feel. In addition, such bathing composition tends to stain the bathtub. Furthermore, the floating oily components offend the eyes.

In order to overcome these problems, a bathing composition wherein oily components are self-emulsified has been proposed (see, e.g., JP-A-61-176520 and JP-A-61-227519 (the term "JP-A" as used herein means an "unexamined published Japanese Patent Application"))).

However bathing compositions wherein oily components are emulsified as above are still unsatisfactory from the viewpoints of the moist feel of the skin after bathing and the smooth feel thereof during and after bathing. Furthermore, a sufficient moistening effect cannot be achieved thereby.

SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a bathing composition which moistens the skin after bathing, imparts a smooth feel during and after bathing, and provides a sustained high moistening effect after bathing.

In order to achieve this object, we have conducted extensive studies. As a result, we have found that a bathing composition having excellent effects can be obtained by blending an oily component with a nonionic surfactant together with a cationic polymer whereby the oily component is present in the form of emulsified particles in bath water.

Thus the present invention, which has been completed based on the above finding, provides a bathing composition comprising (1) oily component, (2) nonionic surfactant, and (3) cationic polymer.

DETAILED DESCRIPTION OF THE INVENTION

The bathing composition of the present invention is described in further detail below.

It is preferable that the oily components to be used in the present invention are insoluble or slightly soluble in water and in the form of a liquid or a solid at room temperature. Examples thereof are as follows.

(1) Fats and oils:

Natural fats and oils such as soybean oil, rice bran oil, jojoba oil, avocado oil, almond oil, olive oil, cacao fat,

sesame oil, persic oil, castor oil, coconut oil, mink oil, beef tallow and lard; hardened oils obtained by hydrogenating oils as above; and synthetic triglycerides and diglycerides such as myristic acid glyceride, 2-ethylhexanoic acid glyceride, etc.

(2) Waxes:

Carnauba wax, spermaceti, beeswax, lanolin, etc.

(3) Hydrocarbons:

Liquid paraffin, vaseline, paraffin, microcrystalline wax, ceresin, squalane, pristan, etc.

(4) Higher fatty acids:

Lauric acid, myristic acid, palmitic acid, stearic acid, behenic acid, oleic acid, linolic acid, linolenic acid, lanolic acid, isostearic acid, etc.

(5) Higher alcohols:

Lauryl alcohol, cetyl alcohol, stearyl alcohol, oleyl alcohol, cholesterol, 2-hexyldecanol, etc.

(6) Esters:

Cetyl octanoate, myristyl lactate, cetyl lactate, isopropyl myristate, myristyl myristate, isopropyl palmitate, isopropyl adipate, butyl stearate, decyl oleate, cholesterol isostearate, etc.

(7) Essential oils:

Mentha oil, jasmine oil, camphor oil, white cedar oil, bitter orange peel oil, ryu oil, turpentine oil, cinnamon oil, bergamot oil, citrus unshiu orange oil, calamus oil, pine

oil, lavender oil, bay oil, clove oil, hiba oil, eucalyptus oil, lemon oil, thyme oil, peppermint oil, rose oil, sage oil, menthol, cineole, eugenol, citral, citronellal, borneol, linalool, geraniol, camphor, thymol, spirantol, pinene, limonene, terpenoid compounds, etc.

(8) Silicone oils:

Dimethicone, phenyl dimethicone, dimethicone copolyol, cyclomethicone, etc.

Among these oily components, jojoba oil, olive oil, 2-ethyl hexanoic acid glyceride, squalane, cetyl octanoate and silicone oils are preferred.

Either one of these materials or a mixture thereof may be used in the present invention. The content of the oily component (total content in the case of multiple oily components) in the bathing composition of the present invention may be preferably selected in such a manner as to control the concentration of the oily component in bath water to a range of from 2 to 500 ppm, and more preferably from 10 to 100 ppm. When the concentration of oily component in bath water is less than 2 ppm, improvement in the smoothness of the skin is undesirably lowered. It is generally preferable that the content of oily component ranges from 0.5 to 50 parts by weight, and more preferably from 1 to 30 parts by weight, per 100 parts by weight of the bathing composition.

Examples of the nonionic surfactants to be used in the bathing composition of the present invention include glycerol fatty acid esters, propylene glycol fatty acid esters, sorbitan fatty acid esters, polyoxyethylene sorbitan fatty acid esters, tetraoleic acid polyoxyethylene sorbitol, polyoxyethylene alkyl ethers, polyoxyethylene polyoxypropylene glycol, polyoxyethylene polyoxypropylene alkyl ethers, polyethylene glycol fatty acid esters, polyoxyethylene castor oil, polyoxyethylene hardened castor oil and polyglycerol fatty acid esters. Among these nonionic surfactants, sorbitan fatty acid esters and polyoxyethylene alkyl ethers are preferred.

These nonionic surfactants serves as emulsifiers for the above-mentioned oily components.

Either one of these nonionic surfactants or a mixture thereof may be used in the present invention. It is preferable that the content of nonionic surfactant (total content in the case of multiple nonionic surfactants) ranges from 5 to 100 parts by weight, and more preferably from 18 to 60 parts by weight, per 100 parts by weight of the oily component. When the content of nonionic surfactant is less than 5 parts by weight per 100 parts by weight of the oily component, self-emulsification of the oily component is not sufficiently achieved. When it exceeds 100 parts by wight, on the other hand, preference of the product might be lowered because foaming of bath water tends to increase.



It is preferable that the cationic polymers to be used in the bathing composition of the present invention are soluble in water. Examples thereof include cationic cellulose, cationic dextran, cationic dextrin, chitosan, cationic vinylpyrrolidone polymer, N,N-dimethyl-3,5-methylenepiperidinium chloride polymer and distearyldimethylammonium chloride polymer.

Among these cationic polymers, cationic cellulose, cationic dextrin, chitosan and distearyldimethylammonium chloride polymer are preferred.

Either one of these cationic polymers or a mixture thereof may be used in the present invention. The content of cationic polymer may be preferably selected in such a manner that the concentration of the cationic polymer in bath water ranges from 0.05 to 100 ppm, and more preferably from 0.1 to 25 ppm. It is generally preferable that the content of cationic polymer (total content in the case of multiple cationic polymers) ranges from 0.01 to 20 parts by weight, and more preferably from 0.05 to 10 parts by weight, per 100 parts by weight of the bathing composition. When the content of cationic polymer is less than 0.01 parts by weight per 100 parts by weight of the bathing composition, the effect of improving the texture of the skin might be lowered. Furthermore, it preferably ranges from 0.1 to 300 parts by weight, and more preferably 0.5 to 150 parts by weight, per 100

parts by weight of the above-mentioned oily component.

Known examples for the application of a cationic polymer to a bathing composition include the use of cationic cellulose (see e.g., WPI Acc No. 84-189961/31; Henckel, West Germany) as well as the use of chitosan and a denatured product thereof (see JP-A-63-10715). The cationic cellulose is used in order to soften the skin and protect the skin from oily soils, while the optionally denatured chitosan is used in order to impart a smooth and moist feel to the skin. However, none of these cationic polymers can satisfactorily suppress the dryness of the skin after bathing.

On the other hand, when the bathing composition of the present invention is introduced into bath water, the oily component forms an emulsion together with the nonionic surfactant(s). Then this emulsion and the cationic polymer exert a synergistic effect of improving the texture of the skin and suppressing the dryness of the skin after bathing.

When cationic polymer is substituted with a cationic surfactant, which is also a cationic substance, the synergistic effect, together with the emulsion, of improving the skin texture, can not be achieved.

In addition to the essential components specified above, the bathing composition of the present invention may further contain various known bathing materials commonly used in bathing preparations. Non-limited examples of the bathing

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materials are as follows.

(i) Inorganic salts:

Sodium chloride, sodium hydrogencarbonate, sodium carbonate, sodium borate, sodium sulfate, sodium sulfide, sodium sesquicarbonate, sodium nitrate, sodium thiosulfate, sodium polyphosphate, sodium phosphate, calcium oxide, magnesium oxide, calcium carbonate, magnesium carbonate, potassium chloride, potassium sulfate, etc.

(ii) Inorganic acids:

Boric acid, methasilicic acid, silicin anhydride, etc.

(iii) Organic acids:

Succinic acid, fumaric acid, malic acid, tartaric acid, citric acid, benzoic acid, etc.

(iv) Crude drugs:

Fennel, phellodendron bark, matricaria, cinnamon bark, safflower, paeoniae radix, ginger, calamus, cnidium rhizome, angericae radix, aurantii nobilis pericarpium, atractylodes lancea rhizoma, Japanese valerian rhizome, angelicae dahuricae radix, bitter orange peel, mentha herb, hoelen, gingseng, etc.

(v) Dyes:

The dyes specified in Attached Tables I and II of Tar Dyes as provided by a Ministerial Ordinance of The Ministry of Health and Welfare such as yellow dye No. 4, blue dye No. 1

and yellow dye No. 202 and natural dyes authorized as food additives such as chlorophyll, riboflavin, crocin, safflower, anthraquinone, etc.

(vi) Vitamins:

Vitamins A, C, D, E, etc.

(vii) Perfumes:

(viii) Micropowders:

Polymers which are generally called "cosmetic powders" such as acrylic resins, styrene resins, epoxy resins, nylon, polyethylene, polypropylene, polyvinyl chloride, polyethylene terephthalate resins and polytetrafluoroethane, copolymers thereof, silicic acid, calcium silicate, natural aluminum silicate, synthetic aluminum silicate, zeolite, titanium oxide, talc, kaoline, mica, bentonite, etc.

(ix) Others:

Sulfur, hot spring deposit, fine sand, mica, neutral clay, roasted rice bran, bactericides, preservatives and materials required for the preparation of the desired bathing composition.

It is preferable that these bathing materials is used in an amount of 0 to 5000 parts by weight per 100 parts by weight of the essential components of the bathing composition of the present invention.

Similar to known bathing preparations, the bathing composition of the present invention may be formulated into

various forms such as a powder, granules, tablets or a solution. The methods for formulating the bathing composition of the present invention into such forms are described, for example, in Tadashi Ichibangase ed., Seizaigaku (Pharmaceutics), published by Hirokawayoten, February 1977.

To further illustrate the effects of the present invention, Examples, Comparative Examples, and Test Evaluation are described below.

EXAMPLE 1 and 2 and COMPARATIVE EXAMPLE 1 to 12

A bathing preparation of each composition as specified in Table 1 was prepared.

EXAMPLE 3 to 13 and COMPARATIVE EXAMPLE 13 to 15

A bathing preparation of each composition as specified in Table 3 was prepared into a form of tablet, except for Example 13, by the following manner. Namely, oily component and dextrin were previously mixed, and the other components as specified in Table 3 were mixed thereto to obtain a powder mixture. Then, 50 g of the resulting powder mixture filled into a metal mold having inner diameter of 50  $\phi$ , and punched out under the pressure of 200 kg/cm<sup>2</sup> to obtain a tablet.

Each bathing composition of the above Examples and Comparative Examples was in the form shown in Tables 1 and 3. Tables 1 and 3 further show the single dose (g) of each product.

## Test Evaluation 1:

The synergistic effects on the smoothness of the skin, achieved by the combined use of the oily components, which had been emulsified by the nonionic surfactants, with the cation polymers in the bathing composition of the present invention was evaluated in the following manner. Namely, the following tests (1) and (2) were conducted, to thereby evaluate the degrees of the improvement in the smoothness of the skin achieved by ionic materials selected from among anionic, cationic and amphoteric substances and cationic polymers with and without emulsified oily components by using the bathing compositions prepared in Examples 1 and 2 and Comparative Examples 1 to 12.

(1) Two bathtubs each containing 150 $\ell$  of bathing water at 40 °C were prepared. Nothing was added to the bathing water in one bathtub while a bathing composition of Comparative Example 2 exclusively comprising an ionic substance was added to the other one in an amount specified in Table 1. Right and left forearms of six subjects were immersed in these bathing waters, respectively, and the degrees of the improvement in the smoothness of the skin achieved with and without the use of the ionic substances were evaluated. The average was referred to as the degree of the improvement in the smoothness (a) of the corresponding ionic substance.

Further, the bathing compositions of Comparative Examples 4, 6, 8, 10 and 11, each exclusively comprising an ionic substance, were examined in the same manner, so as to determine the improvement in the smoothness (a) of each ionic substance.

Improvement in smoothness    Evaluation

Not improved	0
Slightly improved	1
Improved	2
Remarkably improved	3

(2) The same bathtubs as those used in the above test (1) were prepared. The bathing composition of Comparative Example 1 free from any ionic substances was dissolved in the bathing water in one bathtub in the amount specified in Table 1, while the bathing composition of Example 1 containing the emulsified oily components and the cationic polymer was dissolved in other one in the amount specified in Table 1. Then right and left forearms of six subjects were immersed in these bathing waters, respectively. Thus the degrees of the improvement in the smoothness of the ionic substances in the presence of the emulsified oily components (b) were evaluated in the same manner as the one described in (1).

Furthermore, the bathing compositions of Comparative Examples 3, 5, 7 and 9, each containing the emulsified oily

components and ionic substance, were tested in the same manner so as to evaluate the degrees of the improvement in the smoothness of the skin (b).

The synergistic effect on the smoothness of the skin achieved by emulsified oily components and an ionic substance can be evaluated whether the difference of (b) - (a) is positive or negative. Namely, this difference indicates the improvement in the smoothness obtained by using the ionic substance with or without the use of the emulsified oily components. When this value is positive, the synergistic effect is achieved.

Table 2 shows the results of the above tests (1) and (2).

#### Test Evaluation 2:

In order to examine the effect of the cationic polymer(s) in bathing composition of the present invention, the bathing compositions of Example 4 and Comparative Example 14 were tested in the following manner. Namely, 50 subjects used each bathing composition in a conventional manner for 10 days and the smoothness of the skin of each subject during bathing and the smoothness and moistness thereof after bathing were evaluated. Table 4-1 shows the results.

Further, in order to examine the effect depending upon the amount of the cationic polymer in bathing composition of the present invention, the bathing composition of Example 4



and Comparative Example 15 were tested in the same manner. Table 4-2 shows the results.

Test Evaluation 3:

The sustained moistening effect after bathing obtained by the bathing composition of Example 10 was evaluated in the following manner.

A tablet (50 g) of the bathing composition of the Example 10 was dissolved in 150l of bathing water at 40 °C contained in a bathtub and a subject took a bath therein for 10 minutes followed by immediately towel-drying. Then the skin conductance value at the forearm was determined before bathing and 10, 20, 30 and 60 minutes after bathing by using a high-frequency impedance meter (Model IB-400; manufactured by IBS). The obtained data were compared with control examples which had been obtained by using a bathing water containing no additive. The skin conductance before bathing was designated to as 100, and the test data are expressed as the relative value of each average value. Increase of the skin conductance value means increase of the water content in the horny layer of the skin. Details of methods for determination of the skin conductance and evaluation for the results are described, for example, in Hachiro Tagami, The Journal of Investigative Dermatology, vol 75, No. 6, pp 500 to 507, 1980, etc. Table 5 shows the results.

Test Evaluation 4:

The amounts of oily component of the bathing compositions of Examples 3, 6 and 7 and Comparative Example 13 adhering to the skin were determined in the following manner.

Both forearms of eight subjects were each provided with four bottom-less cups (bottom area: approximately 5 cm<sup>2</sup>). 5 ml portions of a bathing water, in which the bathing composition of Example 3 had been dissolved at a ratio of one tablet (90 g) per 150 ml of water at 40°C, were introduced into the cups on one forearm of each subject, while 5 ml portions of another bathing water, in which the bathing composition of Comparative Example 12 had been dissolved at a ratio of a tablet (90 g) per 150 ml, were introduced into the cups on another forearm. After allowing to stand for 10 minutes, these solutions and cups were removed and the skin of each subject was lightly rinsed with distilled water and dried.

Next, bottom-less cups were located on the same positions and a mixture of acetone and ether (1 : 1 by volume) was introduced into each cup. After allowing to stand for 10 minutes, oily component that had been absorbed by the skin was extracted. The acetone/ether mixture contained in four cups in each lot were recovered and evaporated to dryness, to thereby give a sample. These samples were subjected to capillary gas chromatography so as to determine the oily component (cetyl octanoate) that had been adsorbed by the skin.

Table 6 shows the results.

Table 1

Example		Comparative Example											
1	2	1	2	3	4	5	6	7	8	9	10	11	12
<u>Oily component</u>													
Liquid paraffin	10	10	10	10	10	10	10	10	10	10	10	10	0.1
Cholesteryl isostearate	1	1	1	1	1	1	1	1	1	1	1	1	0.01
<u>Nonionic Surfactant</u>													
Polyoxyethylene oleyl ether (2 E.O.)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.012
Polyoxyethylene oleyl ether (10 E.O.)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.008
<u>Anionic Substance</u>													
Polyoxyethylene lauryl ether sodium sulfate (3 E.O.)				0.15	0.15								
<u>Cationic Substance</u>													
Benzalkonium chloride							0.15	0.15					
Distearyldimethylammonium chloride									0.15	0.15			

Table 1 (cont'd)

Example		Comparative Example											
1	2	1	2	3	4	5	6	7	8	9	10	11	12
<u>Amphoteric Substance</u>													
Betaine cetyldi-methylaminoacetate									0.15	0.15			
<u>Cationic Polymer</u>													
Cationic cellulose		0.15									0.15		0.15
Cationic dextran			0.15									0.15	
<u>Form of Bathing Composition</u>		Liquid Liquid Liquid Liquid Powder Liquid Paste Liquid Liquid Liquid Powder Powder											
Single Dose (g/150ℓ of water)		13.15	13.15	13.0	0.15	13.15	0.15	13.15	0.15	13.15	0.15	13.15	0.28

Note: All values other than single doses are parts by weight

Table 2

Components of the Bathing Composition	Comparative Example							
	2	3	4	5	6	7	8	9
Ionic substance	Aninonic Substance			Cationic Substance			Amphoteric Substance	
	None	Present	None	Present	None	Present	None	Present
Oily components and Nonionic surfactants	0 (a)	0 (b)	0.5 (a)	0.5 (b)	0.7 (a)	0.2 (b)	1.3 (a)	0.5 (b)
Improvement in Smoothness	0		0		0.5		-0.8	
(b) - (a)								

Table 2 (cont'd)

Components of the Bathing Composition	Comparative Example			Comparative Example		
	10	11	12	1	2	1
Ionic substance	Cationic Polymer			Cationic Polymer		
Oily components and Nonionic surfactants	None	Present	None	Present	Present	Present
Improvement in Smoothness	1.3 (a)	2.3 (b)	1.0 (a)	2.2 (b)	1.4 (a)	2.3 (b)
(b) - (a)	+1.0			+0.9		

Table 3

Oily Component	Example											Comparative Example		
	3	4	5	6	7	8	9	10	11	12	13	13	14	15
Cetyl octanoate	11.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	34	11.4	5.4	5.4
Cholesteryl isostearate		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1		0.4	0.4
White vaseline		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	4		0.8	0.8
Myristic acid isostearic acid diglyceride		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			0.4	0.4
Liquid paraffin											9			
Nonionic Surfactant														
Polyoxyethylene stearyl ether (6 E.O.)	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.2	0.9	1.2	1.2
Polyoxyethylene oleyl ether (9 E.O.)	2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.1	2	0.8	0.8
Polyoxyethylene oleyl ether (2 E.O.)										1.2				

Table 3 (cont'd)

	3	4	5	6	7	8	9	10	11	12	13	Comparative Example		
Polyoxyethylene oleyl ether (10 E.O.)										0.8		13	14	15
<u>Cationic Polymer</u>														
Cationic cellulose		0.15	0.15					0.07	0.07	0.15	1			0.005
Cationic dextran				0.15										
Cationic dextrin					0.15									
Cationic vinyl pyrrolidone polymer						0.15								
Chitosan							0.15							
N,N-dimethyl-3,5- methylenepiperidinium chloride polymer								0.15						
<u>Other Bathing Material</u>														
Sodium hydrogen- carbonate	15	20	20	20	20	20	20	20	20	20		15	20	20
Sodium carbonate	8	10	10	10	10	10	10	10	10	10		8	10	10
Succinic acid	25	30	30	30	30	30	30	30	30	30		23	30	30

Table 3 (cont'd)

	Example										Comparative		
	3	4	5	6	7	8	9	10	11	12	13	14	15
Fumaric acid									30				
Dextrin	30	30	30	30	30	30	30	30	30	30	30	30	30
Perfume	0.5	1	1	1	1	1	1	1	1	1	0.5	1	1
Purified water											54.7		
Form of Bathing													
Composition													
Single Dose (g)	90	50	50	50	50	50	50	50	50	70	20	90	50

Tablet Tablet Tablet Tablet Tablet Tablet Tablet Tablet Tablet Tablet Liquid Tablet Tablet Tablet

Note : All values other than single doses are parts by weight.



Table 4-1Comparison of products Example 4 and Comparative Example 14

<u>Evaluation</u>	<u>Number of subjects</u>		
	<u>Preferring Example 4</u>	<u>Almost equal</u>	<u>Preferring Comparative Example 14</u>
Smoothness of the skin during bathing	38	10	2
Smoothness of the the skin after bathing	28	14	8
Moistness after bathing	40	7	3

Table 4-2Comparison of products Example 4 and Comparative Example 15

<u>Evaluation</u>	<u>Number of subjects</u>		
	<u>Preferring Example 4</u>	<u>Almost equal</u>	<u>Preferring Comparative Example 15</u>
Smoothness of the skin during bathing	42	7	1
Smoothness of the the skin after bathing	33	12	5
Moistness after bathing	45	3	2

Table 5

	<u>Skin conductance value after bathing</u>			
	<u>After 10 minutes</u>	<u>After 20 minutes</u>	<u>After 30 minutes</u>	<u>After 60 minutes</u>
Example 10	230±21	153±8	134±17	107±8
Control	165±18	97±8	87±8	73±6

Note: Every value shows mean ± S.E.

Referring to skin conductance before bathing as 100.

Table 6Cetyl octanoate  
adsorbed by the skin

	( g/cm <sup>2</sup> )
Example 3	0.53±0.02
Comparative Example 12	0.25±0.02
Example 6	0.35±0.02
Comparative Example 12	0.24±0.04
Example 7	0.57±0.06
Comparative Example 12	0.25±0.09

Note: Every value shows mean ± S.E.

Based on the foregoing testing, it is clear that the bathing composition of the present invention makes it possible to render the skin moist after bathing, impart a smooth feel to the skin during and after bathing and provide a sustained moistening effect after bathing.

While the invention has been described in detail and with reference to specific examples thereof, it will be apparent to one skilled in the art that various changes and modifications can be made therein without departing from the spirit and scope thereof.

What is claimed is:

1. A bathing composition comprising (1) an oily component, (2) a nonionic surfactant, and (3) a cationic polymer.

2. The bathing composition as claimed in claim 1, wherein said oily component is self-emulsified with said nonionic surfactant in bath water.

3. The bathing composition as claimed in claim 1, wherein said oily component is insoluble or slightly soluble in water.

4. The bathing composition as claimed in claim 1, wherein the content of said oily component ranges from 0.5 to 50 parts by weight per 100 parts by weight of the bathing composition.

5. The bathing composition as claimed in claim 4, wherein the content of said oily component ranges from 1 to 30 parts by weight per 100 parts by weight of the bathing composition.

6. The bathing composition as claimed in claim 1, wherein the content of said nonionic surfactant ranges from 5 to 100 parts by weight per 100 parts by weight of said oily component.

7. The bathing composition as claimed in claim 6, wherein the content of said nonionic surfactant ranges from 18 to 60 parts by weight per 100 parts by weight of said oily

component.

8. The bathing composition as claimed in claim 1, wherein the content of said cationic polymer ranges from 0.01 to 20 parts by weight per 100 parts by weight of the bathing composition.

9. The bathing composition as claimed in claim 8, wherein the content of said cationic polymer ranges from 0.05 to 1 parts by weight per 100 parts by weight of the bathing composition.

10. The bathing composition as claimed in claim 1, wherein the content of said cationic polymer ranges from 0.1 to 300 parts by weight per 100 parts by weight of said oily component.

11. The bathing composition as claimed in claim 10, wherein the content of said cationic polymer ranges from 0.5 to 150 parts by weight per 100 parts by weight of said oily component.